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1/5/1 (Item 1 from file: 351)

DIALOG(R)File 351:Derwent WPI

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008445773 **Image available**

WPI Acc No: 1990-332773/*199044*

Excimer laser generator - has connection of microwave generator to laser tube through waveguide NoAbstract Dwg 1/4

Patent Assignee: RICOH KK (RICO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2241074	A	19900925	JP 8963342	A	19890315	199044 B

Priority Applications (No Type Date): JP 8963342 A 19890315

Title Terms: EXCIMER; LASER; GENERATOR; CONNECT; MICROWAVE; GENERATOR;

LASER; TUBE; THROUGH; WAVEGUIDE; NOABSTRACT

Derwent Class: V08

International Patent Class (Additional): H01S-003/09

File Segment: EPI

1/5/2 (Item 1 from file: 345)

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat

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Basic Patent (No,Kind,Date): JP 2241074 A2 900925 <No. of Patents: 001>

PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 2241074 A2 900925

EXCIMER LASER GENERATING DEVICE (English)

Patent Assignee: RICOH KK

Author (Inventor): FUJIWARA YASUhide

Priority (No,Kind,Date): JP 8963342 A 890315

Applic (No,Kind,Date): JP 8963342 A 890315

IPC: * H01S-003/097

CA Abstract No: ; 114(20)196056N

Derwent WPI Acc No: ; G 90-332773

JAPIO Reference No: ; 140557E000159

Language of Document: Japanese

1/5/3 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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03265574 **Image available**

EXCIMER LASER GENERATING DEVICE

PUB. NO.: 02-241074 [*JP 2241074* A]

PUBLISHED: September 25, 1990 (19900925)

INVENTOR(s): FUJIWARA YASUhide

APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 01-063342 [JP 8963342]

FILED: March 15, 1989 (19890315)

INTL CLASS: [5] H01S-003/097

JAPIO CLASS: 42.2 (ELECTRONICS -- Solid State Components)

JAPIO KEYWORD:R002 (LASERS)

JOURNAL: Section: E, Section No. 1011, Vol. 14, No. 557, Pg. 159,

December 11, 1990 (19901211)

ABSTRACT

PURPOSE: To make the shape of a laser tube and the constitution of the whole device more compact and light-weighted without providing a discharge electrode inside the laser tube further to prolong the life of laser beam by a method wherein a microwave producer communicates with a microwave leading-in window provided on a laser tube through the intermediary of a waveguide.

CONSTITUTION: The title excimer laser producer is composed of a laser tube 10 with laser resonators 11, 12 oscillating the excimer laser beams (a), a microwave producer 15 communicating with a microwave leading-in window 13 provided on the laser tube 10 through the intermediary of a waveguide 14 and a laser gas supply source 16 communication with the said laser tube 10. Then, for example, the microwaves produced by the microwave producer 15 are led to the laser tube 10 from the waveguide 14 passing through the microwave leading-in window 13 while the laser gas previously fed from the laser gas supply source 16 to the laser tube 10 is excited to make the excited gas emit ultraviolet rays. Finally, the laser beams are oscillated between the reflector 11 and the output mirror 12 comprising the resonators 11, 12 so that the laser beams may be externally outputted as the excimer laser beams through the output mirror 12.